

1 49. (New) A method for producing a PDP comprising:  
2 a first step of attaching a first electrode onto a main surface of a first plate and  
3 forming a dielectric layer on a surface of the first electrode with a vacuum process method;  
4 a second step of preparing a second plate; and  
5 a third step of placing the first plate and the second plate in parallel to face each  
6 other, with spacing means being placed between the first plate and the second plate, so that a  
7 discharge space is formed between the first plate and the second plate.

51 1 50. (New) The method for producing a PDP defined in Claim 49, wherein  
2 the dielectric layer formed in the first step is a compound including at least one of  
3 zirconium, titanium, zinc, bismuth, cesium, silicon, aluminium, antimony, and magnesium.

1 51. (New) The method for producing a PDP defined in Claim 49, wherein  
2 between the first step and the second step, there is a step for forming a magnesium  
3 oxide protecting layer for protecting the dielectric layer with a vacuum process method  
4 immediately after the dielectric layer is formed in the first step.

1 52. (New) The method for producing a PDP defined in Claim 49, wherein  
2 the vacuum process method used in the first step is a CVD method.

1 53. (New) The method for producing a PDP defined in Claim 52, wherein  
2 a compound is used as a source material for the CVD method in the first step, the  
3 compound including at least one of zirconium, titanium, zinc, bismuth, cesium, silicon,  
4 aluminium, antimony, and magnesium.

1 54. (New) The method for producing a PDP defined in Claim 49, wherein  
2 the first plate used in the first step is made of borosilicate glass including 6.5% or  
3 less by weight of alkali.

1 55. (New) A method for producing a PDP comprising:  
2 a first step of attaching a first electrode onto a main surface of a first plate and  
3 forming a dielectric layer on a surface of the first electrode with a plasma spraying method;  
4 a second step of preparing a second plate; and  
5 a third step of placing the first plate and the second plate in parallel to face each  
6 other, with spacing means being placed between the first plate and the second plate, so that a  
7 discharge space is formed between the first plate and the second plate.

1 56. (New) The method for producing a PDP defined in Claim 55, wherein  
2 a material for the plasma spraying method in the first step is one of a glass  
3 containing lead oxide (PbO), boron oxide (B<sub>2</sub>O<sub>3</sub>), silicon dioxide (SiO<sub>2</sub>), and aluminium oxide  
4 (Al<sub>2</sub>O<sub>3</sub>), and a glass containing phosphorus oxide (P<sub>2</sub>O<sub>5</sub>), zinc oxide (ZnO), aluminium oxide  
5 (Al<sub>2</sub>O<sub>3</sub>), and calcium oxide (CaO), wherein  
6 a thermal expansion coefficient of each of the glasses is in a range of  $45 \times 10^{-7}/^{\circ}\text{C}$   
7 to  $50 \times 10^{-7}/^{\circ}\text{C}$ .

1 57. (New) The method for producing a PDP defined in Claim 55, wherein,  
2 the first plate used in the first step is made of borosilicate glass including 6.5% or  
3 less by weight of alkali.

1 58. (New) A method for producing a PDP comprising:  
2 a first step of attaching a first electrode onto a main surface of a first plate, and  
3 forming with a plasma spraying method a plurality of partition walls on the main surface of the  
4 first plate, wherein at least a part of the first electrode is exposed;  
5 a second step of preparing a second plate; and  
6 a third step of placing the first plate and the second plate in parallel to face each  
7 other, with the plurality of partition walls being placed between the first plate and the second  
8 plate so that a discharge space is formed between the first plate and the second plate.

1 59. (New) The method for producing a PDP defined in Claim 58, wherein  
2 a source material for the plasma spraying method in the first step is at least one of  
3 aluminium oxide ( $\text{Al}_2\text{O}_3$ ) and mullite ( $3(\text{Al}_2\text{O}_3 \cdot 2 \text{SiO}_2)$ ).

1 60. (New) The method for producing a PDP defined in Claim 58, wherein  
2 between the first step and the second step, a dielectric layer is formed to coat the  
3 main surface of the first plate on which the first electrode and the plurality of partition walls  
4 exist.

1 61. (New) The method for producing a PDP defined in Claim 58, wherein  
2 the first plate used in the first step is made of borosilicate glass including 6.5% or  
3 less by weight of alkali.